MOHAMAD RAZEEN IQBAL BIN ROSLAN

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WORK EXPERIENCES

Data Engineer

Contract, AEM Energy Solutions Sdn Bhd   June 2025 – Present

- Managed **end-to-end data ingestion pipelines**, transforming raw data from Excel and other sources into **structured SQL databases** for analytics and reporting.
- Led **data migration initiatives** from structured (SQL) to unstructured (NoSQL) environments, ensuring **data consistency, scalability, and optimal performance**.
- Collaborated with **software developers and petroleum engineers** to design and optimize **data workflows** for upstream and downstream projects, improving data processing efficiency.
- Designed and maintained **ETL pipelines** to automate data cleaning, transformation, and integration from multiple sources, reducing manual data preparation time by **30%**.
- Created **Power BI dashboards and Python visualizations** to monitor data quality, asset performance, and project KPIs, improving decision-making accuracy.
- Implemented **data validation and documentation frameworks**, maintaining end-to-end data accuracy and traceability across systems.
- Coordinated with cross-functional teams to identify new **AI and analytics use cases**, driving innovation in oilfield data applications.

Data Analyst

Contract, EISmartwork Sdn Bhd   May 2024 – May 2025

- **Developed and trained predictive models** using SQL and Python on **datasets with over 10 million records, driving a 20% improvement** in operational efficiency through ML-powered decisions.
- Created **5+ interactive dashboards** using Power BI and Matplotlib, **reducing report generation time by 50%** and improving stakeholder decision-making.
- Streamlined data storage and processing workflows, **reducing database query times by 40%** and supporting seamless data operations.
- **Developed and optimized ELT pipelines** for large volumes of data, ensuring timely and accurate data availability for analytics and reporting.
- **Automated repetitive data cleaning and transformation** tasks using Python scripts, **saving 30+ hours of manual effort per month** and increasing team productivity.
- Provided support to non-technical stakeholders, **enhancing organizational data literacy** and empowering teams to make independent data-driven decisions.

Engineer

Permanent, G&P Geotechnic Sdn Bhd   *Aug.* 2022 – May 2024

- Performed **high-accuracy data analysis** and visualization using Excel and Grapher, delivering actionable insights that drove the successful completion of multiple high-impact projects.
- Conducted **end-to-end data analysis**, from cleaning and preprocessing to visualization, producing comprehensive reports and data-driven recommendations that improved decision-making.
- Designed and implemented **automated workflows** by using Python and VBA Excel to streamline engineering processes, reducing manual effort by 30% and increasing team productivity.
- Transitioned from **engineering-focused tasks to data-centric roles by leveraging skills** in problem-solving, critical thinking, and technical acumen, enabling successful delivery of analytics projects.

ACADEMIC PROJECTS

Master's Research Project – Duplicate Question Detection *(FastText, PCA, Python)*　　Sep. 2025

- Developed an **NLP-based system** integrating FastText embeddings and PCA for scalable duplicate question detection, achieving **83.7% accuracy** with **78% faster computation** on the Quora dataset.
- Implemented and evaluated models (Logistic Regression, Random Forest, XGBoost, SVM), demonstrating **efficient semantic similarity detection** for automated data cleaning tasks.

EDUCATION

Master of Science in Artificial Intelligence

Graduated (CGPA: 3.72), Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA)　　Sep. 2024 – Oct. 2025

Certified Data Analyst Associate

Complete with Certificates, Asia Pacific University of Technology & Innovation (APU)　　May 2023 – Aug. 2023

Bachelor of Civil Engineering with Honours

Graduated with Second Upper Class (CGPA: 3.65), Universiti Putra Malaysia (UPM)　　Sep. 2017 – Oct. 2021

CERTIFICATIONS AND SKILL BADGES

Axiata Digital Leadership Programme　　June 2025 - Oct. 2025

Yayasan Axiata Foundation

Create ML Models with BigQuery ML/Prompt Design in Vertex AI　　Apr. 2025

Google Cloud

Big Data 101/Hadoop 101/Sparks Fundamental/Data Science 101/ Data Analysis with Python　　Apr. 2025

International Business Machine (IBM)

Azure AI-900/SC-900/AZ-900　　Oct. - Dec. 2024

Microsoft

Microsoft Power BI Data Analyst Associate PL-300　　Sep. 2023

Microsoft

PCEP-02 Python Programmer　　Sep. 2023

Python Institute

ACHIEVEMENTS

Champion for Innovation Challenge on Bootcamp 3　　2025

Axiata Digital Leadership Programme

Google Speaker for AI Build 2025 regarding BigQuery ML and Vertex AI　　2025

Google Developer Group UPM

Top 20 on AWS National 2025 for Training Large Language Model using AWS AI Sagemaker　　2025

AWS Singapore

Bronze Medal Award for Final Year Project　　2021

Universiti Putra Malaysia

TECHNICAL SKILLS

Programming Languages – Python, SQL, C++, R, HTML, JavaScript

Machine Learning & AI – TensorFlow, PyTorch, Scikit-Learn, Natural Language Processing

Data Analytics & Visualization – Power BI, Azure, Pandas, NumPy, Matplotlib

Cloud & MLOps – Azure, AWS, GCP, Model Deployment, API Integration, Scalability, Agile

Data Engineering & Processing – ETL Pipelines, Data Cleansing, Big Data Processing

LANGUAGES

Malay – Bilingual Proficiency　　English – Full Professional Proficiency　　Arabic – Educational Proficiency